FIELD CROP ABSTRACTS

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FIELD CROP ABSTRACTS

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Scientific enquiries should be addressed to : The Director, Commonwealth Bureau of Pastures and Field Crops, Hurley, Berkshire, England.

HERBAGE ABSTRACTS

The subscription rate for *Herbage Abstracts* is the same as for *Field Crop Abstracts*. *Herbage Abstracts*, issued quarterly, presents, in condensed form, the world's current scientific literature on grasslands, fodder crops and their management. A specimen copy will be sent on request.

The chief aim of this Bureau is to abstract all published results of current scientific research on annual field crops, herbage and fodders, and to make these abstracts available through our two quarterly journals, *Field Crop Abstracts* and *Herbage Abstracts*. To achieve this aim, the Bureau staff maintains a constant scrutiny of approximately 1000 periodicals, reports and occasional publications which reach us from more than 75 countries. A list of these periodicals and reports examined appeared in *Field Crop Abstracts* Vol. 12, No. 2. The Bureau is always seeking to expand its coverage and suggestions for suitable additions to these lists will be appreciated. All scientific publications relating to annual field crops, herbage and fodder crops, particularly special reports and advance copies of papers, are required so that they may be abstracted and their contents made known to our readers with the minimum delay. *Field Crop Abstracts*, now in its 12th year, has a world-wide circulation.

Translations are not undertaken by the Bureau, neither can publications other than reprints be loaned, but arrangements can be made with an outside agency to supply photostat or microfilm copies at cost price.

Suggestions for review articles, or comments on those published in the journals, are invited.

The Director is always pleased to receive comments on *Field Crop Abstracts* and any suggestions for its improvement.

The abstracts herein are concerned only with those aspects of agricultural science covered by *Field Crop Abstracts* (see table of contents). For other aspects, e.g. plant breeding, soil science, plant pests and diseases (other than control), etc., reference should be made to the C.A.B. journals covering those subjects.

For abstracts dealing with plantation crops, including sisal, sugar-cane and tobacco, see *Horticultural Abstracts.*

As from Vol. 12, No. 2, *Field Crop Abstracts* includes abstracts on the growing of annual field crops used for fodder. The aspects covered include : husbandry, varieties, weed and pest control, botany. For abstracts dealing with the feeding value of these crops, their chemical composition, utilization and conservation, *Herbage Abstracts* should be consulted.

Where † follows the number which appears before the title of an abstract, it indicates that the abstract, or book review, is also reproduced in *Herbage Abstracts.*

The locality shown in square brackets in the title heading of an abstract indicates where the work reported was carried out.

' F.s.' at the end of an abstract indicates ' From summary '.

Eng., Span., Ger., etc. denote language used in summary.

Ext. = Extract.

CORRIGENDUM

Vol. 11, No. 3, Abs. 1097, line 33 should read :
" . . . at a temperature of 0 to –8°C. . . "

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COMMONWEALTH AGRICULTURAL BUREAUX

SOME C.A.B. ABSTRACT JOURNALS DEALING WITH CROP PLANTS

Herbage Abstracts (50s.)	Commonwealth Bureau of Pastures and Field Crops, Hurley.
Field Crop Abstracts (50s.)	Commonwealth Bureau of Pastures and Field Crops, Hurley.
Horticultural Abstracts (70s.)	Commonwealth Bureau of Horticulture and Plantation Crops, East Malling.
Plant Breeding Abstracts (70s.)	Commonwealth Bureau of Plant Breeding and Genetics, Cambridge.
Soils and Fertilizers (60s.)	Commonwealth Bureau of Soils, Rothamsted, Harpenden.

The annual subscription to the above journals is indicated in brackets. Subscribers (other than trade) resident in the British Commonwealth and the Republics of Ireland and the Sudan are allowed a discount of 20% on annual subscriptions sent direct to : Commonwealth Agricultural Bureaux, Central Sales Branch, Farnham Royal, Bucks, England.

SOME C.A.B. OCCASIONAL PUBLICATIONS

Commonwealth Bureau of Horticulture and Plantation Crops, East Malling

No. 25.	Abstract bibliography of fruit breeding and genetics to 1955. *Rubus* and *Ribes*. R. L. Knight and Elizabeth Keep. (1958)	45s.
No. 26.	Horticulture in the British Commonwealth. An outline. D. Akenhead. (1958)	10s.
Digest 1.	The bulk harvesting of orchard fruit. G. E. Tidbury. (1958)	5s.

Commonwealth Bureau of Plant Breeding and Genetics, Cambridge

No. 16.	Back crossing : The theory and practice of the backcross method in the breeding of some non-cereal crops. Mary Thomas. (1952)	15s.
No. 18.	Principles and practice of field experimentation. J. Wishart and H. G. Sanders. 2nd Edition. (1955)	21s.

Commonwealth Bureau of Soils, Rothamsted, Harpenden

No. 48.	The trace-element content of soils. D. J. Swaine. (1955)	25s.
No. 49.	Mulching. G. V. Jacks, W. D. Brind and R. Smith. (1955)	15s.
No. 50.	Relations between water and soil. T. J. Marshall. (1959)	20s.

Commonwealth Bureau of Pastures and Field Crops, Hurley

BULLETINS :

No. 42.	Methods of surveying and measuring vegetation. Dorothy Brown. (1954)	35s.
No. 43.	The storage of seeds for maintenance of viability. Dr. E. B. Owen. (1956)	20s.
No. 44.	The underground organs of herbage grasses. A. Troughton. (1957)	25s.

MIMEOGRAPHS :

No.1/1959.	Minor elements and their effects on the growth and chemical composition of herbage plants. R. Dorrington Williams.	7s. 6d.
No. 2/1959.	Grazing control : laws and regulations in various countries for the control of grazing to prevent injury to grasslands. A. G. G. Hill.	7s. 6d.
No. 3/1959.	Bracken : a review of the literature. K. W. Braid.	7s. 6d.

Green into Gold

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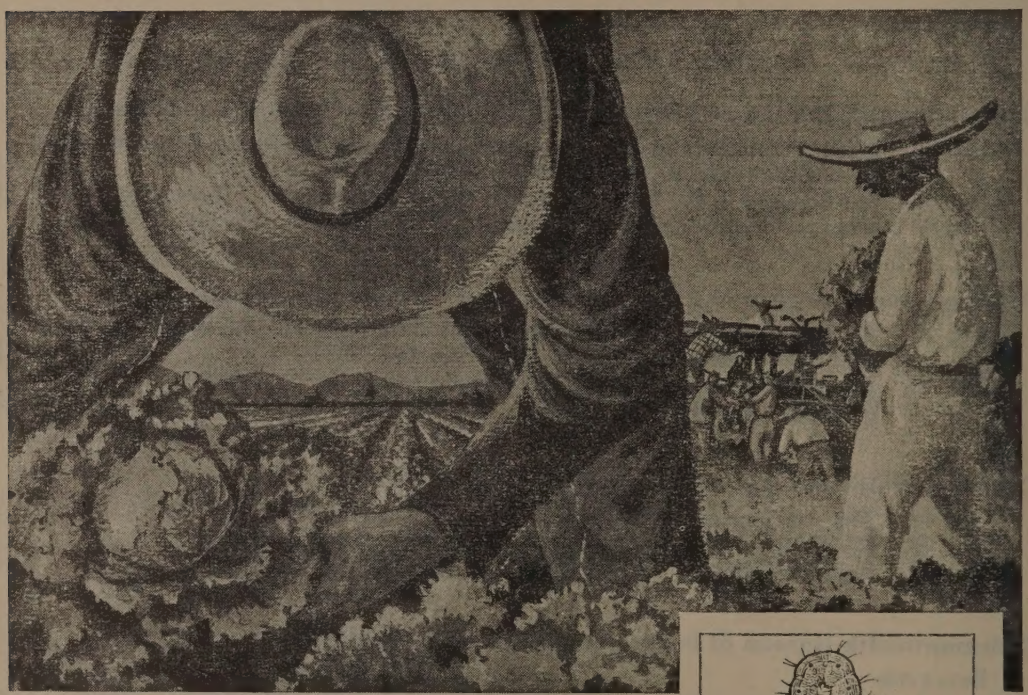

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LIST OF PERIODICALS AND REPORTS EXAMINED BY THE COMMONWEALTH BUREAU OF PASTURES AND FIELD CROPS AND THEIR ABBREVIATED TITLES

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Agronomia Angolana	*Agron. angol.*
Annales de l'Institut Agricole et des Services de Recherches d'Expérimentation Agricole de l'Algérie	*Ann. Inst. agric. Algér.*
Annals of Agricultural Science. Faculty of Agriculture, Ain Shams University. Cairo (2)	*Ann. agric. Sci., Fac. Agric., Ain Shams Univ., Cairo*
Boletim Cultural da Guiné Portuguesa	*Bol. cult. Guiné portug.*
Bulletin Agricole du Congo Belge	*Bull. agric. Congo belge*
Bulletin d'Information de l'Institut National pour l'Étude Agronomique du Congo Belge	*Bull. Inform. I.N.É.A.C.*
Bulletin de l'Institut d'Études Centrafricaines	*Bull. Inst. centrafr.*
Bulletin de l'Institut Français d'Afrique Noire. Série A (6)	*Bull. Inst. franç. Afr. noire (A)*
C.S.I.R. Research Review	*C.S.I.R. Res. Rev.*
East African Agricultural Journal	*E. Afr. agric. J.*
East African Farmer and Planter	*E. Afr. Fmr and Planter*
Farming in South Africa	*Fmg in S. Afr.*
Folia Scientifica Africae Centralis	*Folia sci. Afr. cent.*
Ghana Farmer	*Ghana Fmr*
Journal of the Botanical Society of South Africa	*J. bot. Soc. S. Afr.*
Journal of South African Botany	*J. S. Afr. Bot.*
Journal of the West African Science Association	*J.W. Afr. Sci. Ass.*
Kenya Farmer	*Kenya Fmr*
Kenya Information Office Fortnightly	*K.I.O. Fortnightly*
Monthly Bibliographical Bulletin of the Inter-African Bureau for Soils and Rural Economy	*Mon. bibl. Bull. B.I.S.*
Nyasaland Farmer and Forester	*Nyasaland Fmr Forstr*
Onderstepoort Journal of Veterinary Research	*Onderstepoort J. vet. Res.*
Proceedings and Transactions of the Rhodesia Scientific Association	*Proc. Rhod. sci. Ass.*
Rapport du Conseil de l'Expérimentation et des Recherches Agronomiques. Algérie	*Rapp. Cons. Exp. Rech. agron., Algér*
Rapport de l'Institut National pour l'Étude Agronomique du Congo Belge	*Rapp. I.N.É.A.C.*
Rapport de l'Institut de la Recherche Scientifique de l'Afrique Centrale	*Rapp. I.R.S.A.C.*
Record of Investigations. Department of Agriculture. Uganda	*Rec. Invest. Dep. Agric. Uganda*
Report and Accounts. Tanganyika Agricultural Corporation	*Rep. Tanganyika agric. Corp.*
Report of African Land Development in Kenya	*Rep. Afr. Ld Devel. Kenya*
Report of the Agricultural Experiment Station. Salisbury [Cont. in *Rhod. agric. J.*]	*Rep. agric. Exp. Sta., Salisbury*
Report of the Cameroons Development Corporation	*Rep. Cameroons Devel. Corp.*
Report of the South African Council for Scientific and Industrial Research	*Rep. C.S.I.R.*
Report of the Department of Agricultural and Veterinary Services. Somaliland	*Rep. Dep. agric. vet. Servs Somalild*
Report of the Department of Agricultural Research. Nigeria	*Rep. Dep. agric. Res. Nigeria*
Report of the Department of Agriculture. Basutoland	*Rep. Dep Agric. Basutold*
Report of the Department of Agriculture. Bechuanaland	*Rep. Dep. Agric. Bechuanald*

*The term periodicals as used here includes : journals, proceedings, transactions and yearbooks. Occasional bulletins and circulars are not included in the list. For key to numbers in brackets, see page xxv.

Title	Abbreviation used
AFRICA—(*Continued*)	
Report of the Department of Agriculture. Ghana	*Rep. Dep. Agric. Ghana*
Report of the Department of Agriculture. Kenya	*Rep. Dep. Agric. Kenya*
Report of the Department of Agriculture. Northern Rhodesia	*Rep. Dep. Agric. N. Rhod.*
Report of the Department of Agriculture. Nyasaland	*Rep. Dep. Agric. Nyasald*
Report of the Department of Agriculture. Sierra Leone	*Rep. Dep. Agric. Sierra Leone*
Report of the Department of Agriculture. South Africa [Cont. in *Fmg in S. Afr.*]	*Rep. Dep. Agric. S. Afr.*
Report of the Department of Agriculture. Tanganyika	*Rep. Dep. Agric. Tanganyika*
Report of the Department of Agriculture. Uganda	*Rep. Dep. Agric. Uganda*
Report of the Department of Agriculture. Western Region of Nigeria	*Rep. Dep. Agric. W. Nigeria*
Report of the Department of Animal Health. Ghana	*Rep. Dep. Anim. Hlth Ghana*
Report of the Department of Commerce and Industry. Division of Fisheries. South Africa	*Rep. Dep. Commerce Industr., Div. Fish., S. Afr.*
Report of the Department of Land Utilization. Swaziland	*Rep. Dep. Ld Util. Swazild*
Report of the Department of Veterinary Services. Bechuanaland	*Rep. Dep. vet. Servs Bechuanald*
Report of the Department of Veterinary Services. Kenya	*Rep. Dep. vet. Servs Kenya*
Report of the Department of Veterinary Services and Animal Industry. Nyasaland	*Rep. Dep. vet. Servs, anim. Industr. Nyasald*
Report of the Department of Veterinary Services and Animal Industry. Uganda	*Rep. Dep. vet. Servs, anim. Industr. Uganda*
Report of the East African Agriculture and Forestry Research Organization	*Rep. E. Afr. agric., for. Res. Org.*
Report of the East African Veterinary Research Organization	*Rep. E. Afr. vet. Res. Org.*
Report of the Forest Department. Kenya	*Rep. For. Dep. Kenya*
Report of the Grain Storage Department. Tanganyika	*Rep. Grain Storage Dep. Tanganyika*
Report of the Grassland Research Station. Kitale	*Rep. Grassl. Res. Sta., Kitale*
Report of the Grasslands Agricultural Research Station. Marandellas	*Rep. Grassls agric. Res. Sta., Marandellas*
Report of the Henderson Research Station (8)	*Rep. Henderson Res. Sta.*
Report of the National Botanic Gardens. Kirstenbosch	*Rep. bot. Gdns, Kirstenbosch*
Report of the Produce Inspection Service of the Western Region of Nigeria.	*Rep. Prod. Inspect. Serv. W. Nigeria*
Report of the Secretary to the Federal Ministry of Agriculture. Rhodesia and Nyasaland	*Rep. Sec. Fed. Minist. Agric. Rhod. and Nyasald*
Report of the South African Sugar Association Experiment Station	*Rep. S. Afr. Sugar Ass. Exp. Sta.*
Report of the Tanganyika Sisal Growers' Association	*Rep. Tanganyika Sisal Gr. Ass.*
Report of the Tsetse Survey and Reclamation Department. Tanganyika	*Rep. Tsetse Surv. Reclam. Dep. Tanganyika*
Report of the Veterinary Department. Sierra Leone	*Rep. vet. Dep. Sierra Leone*
Report of the Veterinary Department. Tanganyika	*Rep. vet. Dep. Tanganyika*
Report of the West African Maize Research Unit	*Rep. W. Afr. Maize Res. Unit*
Report of the West African Rice Research Station. Rokupr	*Rep. W. Afr. Rice Res. Sta., Rokupr*
Report of the Western Region Marketing Board. Nigeria	*Rep. W. Region Mktg Bd Nigeria*
Revue Agricole de l'Afrique du Nord (7)	*Rev. agric. Afr. N.*
Rhodesia Agricultural Journal	*Rhod. agric. J.*
Rhodesian Tobacco (2)	*Rhod. Tob.*
Sols Africains (8)	*Sols afr.*
South African Journal of Agricultural Science	*S. Afr. J. agric. Sci.*
South African Journal of Science	*S. Afr. J. Sci.*
Tanganyika Notes and Records	*Tanganyika Notes*
Terre Marocaine (2)	*Terre maroc.*
AUSTRALIA	
Agricultural Gazette of New South Wales	*Agric. Gaz. N.S.W.*
Aqua. Victoria	*Aqua, Vict.*
Australasian Irrigator and Pasture Improver	*Australas. Irrig. and Past. Imp.*
Australian Agricultural Newsletter	*Aust. agric. Newslett.*
Australian Journal of Agricultural Research	*Aust. J. agric. Res.*

Title	Abbreviation used
AUSTRALIA—(*Continued*)	
Australian Journal of Biological Sciences	*Aust. J. biol. Sci.*
Australian Journal of Botany	*Aust. J. Bot.*
Australian Journal of Chemistry (8)	*Aust. J. Chem.*
Australian Journal of Science	*Aust. J. Sci.*
Australian Journal of Zoology	*Aust. J. Zool.*
Australian Science Index (C.S.I.R.O.)	*Aust. Sci. Index*
Australian Veterinary Journal	*Aust. vet. J.*
Commonwealth Agriculturist	*Commonw. Agriculturist*
Contributions from the New South Wales National Herbarium	*Contr. N.S.W. Herbarium*
C.S.I.R.O. Abstracts	*C.S.I.R.O. Abstr.*
C.S.I.R.O. Wildlife Research	*C.S.I.R.O. Wildl. Res.*
Journal of the Australian Institute of Agricultural Science	*J. Aust. Inst. agric. Sci.*
Journal of the Department of Agriculture of South Australia	*J. Dep. Agric. S. Aust.*
Journal of the Department of Agriculture of Victoria	*J. Dep. Agric. Vict.*
Journal of the Department of Agriculture of Western Australia	*J. Dep. Agric. W. Aust.*
Journal and Proceedings of the Royal Society of New South Wales	*J. roy. Soc. N.S.W.*
Journal of the Soil Conservation Service of New South Wales	*J. Soil Conserv. N.S.W.*
Papers of the Queensland University Department of Botany	*Pap. Qd Univ. Dep. Bot.*
Papers of the Queensland University Faculty of Agriculture	*Pap. Qd Univ. Fac. Agric.*
Pastoral Review and Grazier's Record	*Pastoral Rev.*
Proceedings of the Australian Society of Animal Production	*Proc. Aust. Soc. Anim. Prod.*
Proceedings of the Linnean Society of New South Wales (7)	*Proc. Linn. Soc. N.S.W.*
Proceedings of the Royal Society of Queensland	*Proc. roy. Soc. Qd*
Quarterly Review of Agricultural Economics	*Quart. Rev. agric. Econ.*
Queensland Agricultural Journal	*Qd agric. J.*
Queensland Journal of Agricultural Science	*Qd J. agric. Sci.*
Report of the Bureau of Investigation. Queensland	*Rep. Bur. Invest. Qd*
Report of the Commonwealth Scientific and Industrial Research Organization	*Rep. C.S.I.R.O.*
Report of the Department of Agriculture. New South Wales.	*Rep. Dep. Agric. N.S.W.*
Report of the Department of Agriculture and Stock. Queensland	*Rep. Dep. Agric. Stock Qd*
Report of the Department of Agriculture. Tasmania	*Rep. Dep. Agric. Tasm.*
Report of the Department of Agriculture. Western Australia	*Rep. Dep. Agric. W. Aust.*
Report of the Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization	*Rep. Div. Pl. Industr., C.S.I.R.O.*
Report of the Minister of Agriculture for South Australia	*Rep. Minist. Agric. S. Aust.*
Report of the Soil Conservation Authority. Victoria	*Rep. Soil Conserv. Auth., Vict.*
Report of the University of Sydney School of Agriculture	*Rep. Sydney Univ. Sch. Agric.*
Report of the Waite Agricultural Research Institute. Glen Osmond	*Rep. Waite Agric. Res. Inst.*
Rural Research in the Commonwealth Scientific and Industrial Research Organization	*Rur. Res. C.S.I.R.O.*
Tasmanian Journal of Agriculture	*Tasm. J. Agric.*
Transactions of the Royal Society of South Australia (7)	*Trans. roy. Soc. S. Aust.*
AUSTRIA	
Archiv für Meteorologie, Geophysik und Bioklimatologie. Ser. B. Wien (7)	*Arch. Met., Wien*
Bericht über die Arbeitstagung der Arbeitsgemeinschaft der Saatzuchtleiter. Gumpenstein	*Ber. ArbTag. ArbGemeinsch. Saatzuchtleiter, Gumpenstein*
Bodenkultur	*Bodenkultur*
Pflanzenschutzberichte (3)	*PflSchBer.*
Versuchsergebnisse der Bundesversuchsanstalt für Alpenländische Landwirtschaft. Gumpenstein	*VersErgebn. BundesversAnst. alpl. Landw., Gumpenstein*
AZORES	
Boletim Comissão Reguladora dos Cereais do Arquipélago dos Açores (8)	*Bol. Com. reg. Cer. Açores*

Title	Abbreviation used
BELGIUM	
Agricultura. Louvain (7)	*Agricultura, Louvain*
Annales de Gembloux	*Ann. Gembl.*
Annales de Physiologie Végétale de l'Université de Bruxelles	*Ann. Physiol. vég., Univ. Brux.*
Bulletin du Comité National Belge de la F.A.O.	*Bull. Cté nat. belge F.A.O.*
Bulletin de l'Institut Agronomique et des Stations de Recherches de Gembloux	*Bull. Inst. agron., Gembl.*
Bulletin du Jardin Botanique de l'État à Bruxelles	*Bull. Jard. bot., Brux.*
Bulletin de la Société Royale de Botanique de Belgique (10)	*Bull. Soc. Bot. Belg.*
Mededelingen van de Landbouwhogeschool en de Opzoekingsstations van de Staat te Gent	*Meded. LandbHogesch., Gent*
Publications Techniques de l'Institut Belge pour l'Amélioration de la Betterave	*Publ. tech. Inst. belge Amélior. Better.*
Publications de Vulgarisation de l'Institut Belge pour l'Amélioration de la Betterave	*Publ. Vulg. Inst. belge Amélior. Better.*
Revue de l'Agriculture. Bruxelles	*Rev. Agric., Brux.*
Sucrerie Belge (7)	*Sucr. belge*
BERMUDA	
Report of the Director of Agriculture. Bermuda	*Rep. Dir. Agric. Bermuda*
BURMA	
Report on the Land Records Administration. Burma	*Rep. Ld Rec. Administ. Burma*
CANADA	
Agricultural Institute Review	*Agric. Inst. Rev.*
Agriculture, Montréal	*Agriculture, Montréal*
Canada Handbook	*Can. Handb.*
Canadian Journal of Animal Science (8)	*Canad. J. Anim. Sci.*
Canadian Journal of Botany	*Canad. J. Bot.*
Canadian Journal of Plant Science	*Canad. J. Pl. Sci.*
Canadian Journal of Soil Science (8)	*Canad. J. Soil Sci.*
Contributions de l'Institut Botanique de l'Université de Montréal	*Contr. Inst. bot. Univ. Montréal*
Forage Notes. Ottawa	*Forage Notes*
National Research Council Review	*Nat. Res. Coun. Rev.*
Proceedings of the Annual Conference of Manitoba Agronomists	*Proc. annu. Conf. Manitoba Agronomists*
Proceedings of the Canadian Society of Agronomy	*Proc. Canad. Soc. Agron.*
Proceedings of the Eastern Section, National Weed Committee	*Proc. E. Sect. Nat. Weed Cttee* [*Canada*]
Proceedings of the Western Canadian Weed Control Conference	*Proc. W. Canad. Weed Contr. Conf.*
Proceedings of the Western Section, National Weed Committee	*Proc. W. Sect. Nat. Weed Cttee* [*Canada*]
Progress Report of the Animal Husbandry Division. Canada Department of Agriculture. Experimental Farms Service	*Progr. Rep. Anim. Husb. Div., Can. Dep. Agric., exp. Fms Serv.*
Progress Report of the Dominion Experimental Farm. Agassiz, British Columbia	*Progr. Rep. Dom. exp. Fm, B.C.*
Progress Report of the Experimental Farm. Kentville, Nova Scotia (8)	*Progr. Rep. exp. Fm, Nova Scotia*
Progress Report of Pasture Research. Canada Department of Agriculture. Experimental Farms Service	*Progr. Rep. Past. Res., Can. Dep. Agric., exp. Fms Serv.*
Report of the Department of Agriculture. Alberta	*Rep. Dep. Agric. Alberta*
Report of the Department of Agriculture. British Columbia	*Rep. Dep. Agric. B.C.*
Report of the Department of Agriculture. New Brunswick	*Rep. Dep. Agric. N. Brunswick*
Report of the Department of Agriculture. Ontario	*Rep. Dep. Agric. Ont.*
Report of the Department of Agriculture and Marketing. Nova Scotia	*Rep. Dep. Agric. Marktg Nova Scotia*
Report of the Grain Research Laboratory	*Rep. Grain Res. Lab.*

Title	Abbreviation used
CANADA—(*Continued*)	
Report of the Minister of Agriculture for Canada	*Rep. Minist. Agric. Can.*
Report of the National Research Council. Ottawa	*Rep. nat. Res. Coun. Ottawa*
Report of the Ontario Soil and Crop Improvement Association	*Rep. Ont. Soil and Crop Improve. Ass.*
Report of the Quebec Society for the Protection of Plants	*Rep. Quebec Soc. Protect. Pl.*
Report on Prairie Farm Rehabilitation and Related Activities. Canada Department of Agriculture	*Rep. Prairie Fm Rehabil. Can. Dep. Agric.*
Research Report Eastern Section, National Weed Committee	*Res. Rep. E. Sect. Nat. Weed Cttee* [*Canada*]
Research Report Western Section, National Weed Committee	*Res. Rep. W. Sect. Nat. Weed Cttee* [*Canada*]
Revue d'Oka	*Rev. Oka*
Transactions of the Royal Society of Canada. Section 5	*Trans. roy. Soc. Can.* (*5*)
CEYLON	
Ceylon Journal of Science. Section A. Botany (7)	*Ceylon J. Sci.* (*A*)
Tropical Agriculturist	*Trop. Agriculturist*
CHINA	
Acta Agriculturae Sinica (3)	*Acta Agric. sinica*
Acta Botanica Sinica (3)	*Acta bot. sinica*
Acta Phytopathologica Sinica (10)	*Acta phytopath. sinica*
Scientia Sinica (3)	*Scientia sinica*
CYPRUS	
Countryman. Nicosia	*Countryman, Nicosia*
Report of the Department of Agriculture. Cyprus	*Rep. Dep. Agric. Cyprus*
CZECHOSLOVAKIA	
Annals of the Czechoslovak Academy of Agricultural Sciences	*Ann. čsl. Acad. agric. Sci.*
Agricultural Economics Series	*Agric. Econ. Ser.*
Plant Production Series	*Pl. Prod. Ser.*
Sborník Vysoké Školy Zemédelské v Praze (Acta Univ. Agric., Praha)	*Sborn. Vysoké Skoly Zeméd. Praze*
Vědecké Práce	*Vědecké Práce*
DENMARK	
Årsskrift den Kongelige Veterinær- og Landbohøjskole	*Årsskr. K. vet. Landbohøjsk.*
Botanisk Tidsskrift (7)	*Bot. Tidsskr.*
Dansk botanisk Arkiv (7)	*Dansk bot. Ark.*
Dansk Frøavl	*Dansk Frøavl*
Dansk Landbrug	*Dansk Landbr.*
Lin	*Lin*
Nordisk Jordbrugsforskning	*Nord. JordbrForskn.*
Oikos	*Oikos*
Physiologia Plantarum (8)	*Physiol. Plant.*
Tidsskrift for Planteavl	*Tidsskr. Planteavl*
Tolvmandsbladet	*Tolvmandsbladet*
Ugeskrift for Landmænd	*Ugeskr. Landm.*
FALKLAND ISLANDS	
Report of the Department of Agriculture. Falkland Islands	*Rep. Dep. Agric. Falkland Is*

Title	Abbreviation used
FIJI	
Agricultural Journal of Fiji	*Agric. J. Fiji*
Report of the Department of Agriculture. Fiji	*Rep. Dep. Agric. Fiji*
FINLAND	
Annales Botanici Societatis Zoologicae-Botanicae Fennicae. Vanamo	*Ann. bot. Soc. zool.-bot. fenn., Vanamo*
Maatalous ja Koetoiminta	*Maatal. ja Koetoim.*
Maataloustieteelinen Aikakauskirja	*Maataloust. Aikakausk.*
Suomen Laidunyhdistyksen Vuosikirja	*Suom. Laidunyhd. Vuosik.*
Suomen Maataloustieteellisen Seuran Julkaisuja	*Suom. Maataloust. Seur. Julk.*
Tidskrift för Lantmän	*Tidskr. Lantm.*
Valtion Maatalouskoetoiminnan Julkaisuja	*Valt. Maatalousk. Julk.*
Valtion Maatalouskoetoiminnan Tiedonantoja	*Valt. Maatalousk. Tiedon.*
FORMOSA (TAIWAN)	
Memoirs of the College of Agriculture, National Taiwan University	*Mem. Coll. Agric. nat. Taiwan Univ.*
Soils and Fertilizers in Taiwan	*Soils and Ferts, Taiwan*
FRANCE	
Agronomie Tropicale. Nogent-sur-Marne	*Agron. trop., Nogent*
Annales Agronomiques	*Ann. agron., Paris*
Annales de l'Amélioration des Plantes	*Ann. Amélior. Pl., Paris*
Annales de l'École Nationale d'Agriculture de Montpellier (2)	*Ann. Éc. Agric. Montpellier*
Annales des Épiphyties. Paris (7)	*Ann. Épiphyt., Paris*
Annales de l'Institut National Agronomique (8)	*Ann. Inst. nat. agron., Paris*
Annales des Sciences Naturelles. Botanique et Biologie Végétale (5)	*Ann. Sci. nat. Bot. Biol. vég.*
Annales Scientifiques de l'Université de Besançon. Série 2. [Botanique] (7)	*Ann. sci. Univ. Besançon (2)*
Année Biologique (7)	*Année biol.*
Bulletin Agronomique du Ministère de la France d'Outre-mer	*Bull. agron. Fr. d'out. mer*
Bulletin de la Fédération Française d'Économie Alpestre	*Bull. Féd. franç. Écon. alp.*
Bulletin du Muséum National d'Histoire Naturelle. Paris (7)	*Bull. Mus. Hist. nat., Paris*
Bulletin du Service de la Carte Phytogéographique. Série B	*Bull. Serv. Carte phytogeog. (B)*
Bulletin de la Société Botanique de France (7)	*Bull. Soc. bot. Fr.*
Bulletin Technique d'Information (8)	*Bull. tech. Inform.*
Comptes Rendus Hebdomadaires des Séances de l'Académie d'Agriculture de France	*C.R. Acad. Agric. Fr.*
Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. Paris (7)	*C.R. Acad. Sci., Paris*
Comptes Rendus des Séances de la Société de Biologie. Paris (7)	*C.R. Soc. Biol., Paris*
Coton et Fibres Tropicales	*Cot. et Fibr. trop.*
Journal d'Agriculture Tropicale et de Botanique Appliquée	*J. Agric. trop. et Bot. appl.*
Oléagineux	*Oléagineux*
Pomme de Terre Française	*Pomme d. Terre franç.*
Potasse	*Potasse*
Rapport de l'Institut de Recherches du Coton et des Textiles Exotiques [Cont. in *Cot. et Fibr. trop.*]	*Rapp. I.R.C.T.*
Rapport de la Société d'Encouragement de la Culture des Orges de Brasserie et des Houblons en France	*Rapp. SECOBRAH*
Revue d'Élevage et de Médecine Vétérinaire des Pays Tropicaux (7)	*Rev. Élev.*
Revue Générale de Botanique. Paris (7)	*Rev. gén. Bot.*
Riz et Riziculture	*Riz et Rizicult.*
Sucrerie Française (7)	*Sucr. franç.*

Title	Abbreviation used
GERMANY	
Albrecht-Thaer-Archiv (3)	*Albr.-Thaer-Arch.*
Angewandte Botanik (2)	*Angew. Bot.*
Angewandte Chemie (5)	*Angew. Chem.*
Angewandte Pflanzensoziologie Stolzenau/Weser	*Angew. PflSoziol.*
Bayerisches Landwirtschaftliches Jahrbuch	*Bayer. landw. Jahrb.*
Beiträge zur Biologie der Pflanzen (5)	*Beitr. Biol. Pfl.*
Bericht über die Tätigkeit des Instituts für Grünlandwirtschaft, Braunschweig-Völkenrode (8)	*Ber. Inst. Grünlandwirtsch.*
Bericht über die Tätigkeit des Instituts für Pflanzenbau und Saatguterzeugung der Forschungsanstalt für Landwirtschaft, Braunschweig-Völkenrode	*Ber. Inst. PflBau Saatgut. ForschAnst. Landw.*
Berichte der Deutschen Botanischen Gesellschaft (5)	*Ber. dtsch. bot. Ges.*
Berichte und Vorträge der Deutschen Akademie der Landwirtschaftswissenschaften zu Berlin	*Ber. u. Vortr. dtsch. Akad. LandwWiss.*
Biologisches Zentralblatt (2)	*Biol. ZBl.*
Botanische Jahrbücher. Stuttgart (5)	*Bot. Jahrb., Stuttgart*
Deutsche Landwirtschaft (3)	*Dtsch. Landw.*
Deutsche Landwirtschaftliche Presse	*Dtsch. landw. Pr.*
Flora. Jena (5)	*Flora, Jena*
Futter und Fütterung (13)	*Futter u. Fütterung*
Grünland (13)	*Grünland*
Jahrbuch der Deutschen Akademie der Landwirtschaftswissenschaften zu Berlin (8)	*Jahrb. dtsch. Akad. LandwWiss.*
Kartoffelbau	*Kartoffelbau*
Kühn-Archiv	*KühnArchiv*
Landwirtschaft-Angewandte Wissenschaft	*Landw.-ang. Wiss.*
Landwirtschaftliche Forschung	*Landw. Forsch.*
Mitteilungen der Bayerischen Landesanstalt für Tierzucht in Grub (8)	*Mitt. bayer. Landesanst. Tierzucht Grub*
Mitteilungen aus der Biologischen Bundesanstalt für Land- und Forstwirtschaft. Berlin-Dahlem	*Mitt. biol. Bundesanst. Berl.*
Mitteilungen für Landkultur, Moor- und Torfwirtschaft	*Mitt. Landk., Moor- u. Torfwirtsch.*
Nachrichtenblatt des Deutschen Pflanzenschutzdienstes. Braunschweig (10)	*NachrBl. dtsch. PflSchDienst., Braunschweig*
Naturwissenschaften (5)	*Naturwissenschaften*
Planta. Archiv für wissenschaftliche Botanik (5)	*Planta*
Praktische Blätter für Pflanzenbau und Pflanzenschutz	*Prakt. Bl. PflBau*
Saatgut-Wirtschaft (3)	*Saatgut-Wirtsch.*
Sitzungsberichte der Deutschen Akademie der Landwirtschaftswissenschaften zu Berlin	*S.B. dtsch. Akad. LandwWiss.*
Zeitschrift für Acker- und Pflanzenbau	*Z. Acker- u. PflBau*
Zeitschrift für Botanik (5)	*Z. Bot.*
Zeitschrift für Landwirtschaftliches Versuchs- und Untersuchungswesen (3)	*Z. landw. Vers.- u. UntersuchWes.*
Zeitschrift für Pflanzenernährung, Düngung, Bodenkunde	*Z. PflErnähr. Düng.*
Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz(2)	*Z. PflKrankh.*
Zeitschrift für Pflanzenzüchtung (10)	*Z. PflZücht.*
Züchter (2)	*Züchter*
GREAT BRITAIN	
Advancement of Science	*Advanc. Sci.*
Agricultural and Horticultural Engineering Abstracts	*Agric. hort. Engng Abstr.*
Agricultural History Review (8)	*Agric. Hist. Rev.*
Agricultural Merchant	*Agric. Merch.*

Title	Abbreviation used
GREAT BRITAIN—(*Continued*)	
Agricultural Progress	*Agric. Progr.*
Agriculture. London	*Agriculture, Lond.*
Analyst. London (8)	*Analyst, Lond.*
Analytical Abstracts	*Analyt. Abstr.*
Animal Behaviour (8)	*Anim. Behav.*
Animal Production	*Anim. Prod.*
Annals of Applied Biology (8)	*Ann. appl. Biol.*
Annals of Botany (8)	*Ann. Bot., Lond.*
Aslib Book List	*Aslib Bk List*
Biochemical Journal (8)	*Biochem. J.*
Biological Reviews (8)	*Biol. Rev.*
British Journal of Applied Physics (8)	*Brit. J. appl. Phys.*
British Journal of Nutrition (8)	*Brit. J. Nutr.*
British Sugar Beet Review	*Brit. Sug. Beet Rev.*
British Veterinary Journal (8)	*Brit. vet. J.*
Bulletin of Entomological Research	*Bull. ent. Res.*
Chemistry and Industry (8)	*Chem. and Industr.*
Commonwealth Development	*Commonw. Devel.*
Commonwealth Phytopathological News	*Commonw. phytopath. News*
Countryman	*Countryman*
Dairy Farmer	*Dairy Fmr*
Dairy Science Abstracts	*Dairy Sci. Abstr.*
Digest of Agricultural Economics	*Dig. agric. Econ.*
Discovery (8)	*Discovery*
Empire Cotton Growing Review	*Emp. Cott. Gr. Rev.*
Empire Journal of Experimental Agriculture	*Emp. J. exp. Agric.*
Endeavour	*Endeavour*
Experimental Husbandry (8)	*Exp. Husb.*
Farm. Dagenham	*Farm, Dagenham*
Farm Economist	*Fm Econ.*
Farm Implement and Machinery Review (8)	*Fm Impl. Rev.*
Farm Mechanization	*Fm Mechaniz.*
Farm Review	*Fm Rev.*
Farmer and Stock-Breeder	*Fmr and Stk-Breed.*
Farmer's Weekly	*Fmr's Wkly, Lond.*
Farming Review (8)	*Fmg Rev.*
Forestry Abstracts	*For. Abstr.*
Geographical Journal (7)	*Geogr. J.*
Helminthological Abstracts	*Helminth. Abstr.*
Heredity (7)	*Heredity*
Horticultural Abstracts	*Hort. Abstr.*
Index to theses accepted for higher degrees in the Universities of Great Britain and Ireland (Aslib)	*Index to Theses, Aslib*
Journal of Agricultural Economics	*J. agric. Econ.*
Journal of Agricultural Engineering Research (8)	*J. agric. Engng Res.*
Journal of Agricultural Science (8)	*J. agric. Sci.*
Journal of the Agricultural Society, University College of Wales	*J. agric. Soc. Univ. Coll. Wales*
Journal of the Association of Green Crop Driers (8)	*J. Ass. Green Crop Driers*
Journal of the British Grassland Society	*J. Brit. Grassl. Soc.*
Journal of Dairy Research	*J. Dairy Res.*
Journal of Documentation (8)	*J. Document.*
Journal of Ecology (8)	*J. Ecol.*
Journal of Experimental Botany	*J. exp. Bot.*
Journal of the Farmers' Club. London	*J. Fmrs' Cl., Lond.*
Journal of General Microbiology (8)	*J. gen. Microbiol.*
Journal of Genetics (7)	*J. Genet.*
Journal of Helminthology (8)	*J. Helminth.*

Title	Abbreviation used
GREAT BRITAIN—(*Continued*)	
Journal of Horticultural Science (8)	*J. hort. Sci.*
Journal of the Institute of Brewing (11)	*J. Inst. Brew.*
Journal of the Institute of Corn and Agricultural Merchants, Ltd.	*J. Inst. corn agric. Merch.*
Journal of the Land Agents' Society	*J. Land Agents' Soc.*
Journal of the National Institute of Agricultural Botany	*J. nat. Inst. agric. Bot.*
Journal of the Royal Agricultural Society	*J. roy. agric. Soc.*
Journal of the Royal Horticultural Society (8)	*J. roy. hort. Soc.*
Journal of the Royal Society of Arts (8)	*J. roy. Soc. Arts*
Journal of the Science of Food and Agriculture (8)	*J. Sci. Fd Agric.*
Journal of Scientific Instruments (8)	*J. sci. Instrum.*
Journal of Soil Science	*J. Soil Sci.*
Journal of the Sports Turf Research Institute (8)	*J. Sports Turf Res. Inst.*
Kew Bulletin (8)	*Kew Bull.*
Laboratory Practice (8)	*Lab. Prac.*
Laden Wain (8)	*Laden Wain*
Medical and Biological Illustration (8)	*Med. biol. Illus.*
Meteorological Bibliography. Harrow	*Met. Bibl., Harrow*
Meteorological Magazine. London (8)	*Met. Mag., Lond.*
Monthly Information Sheet. British Standards Institution (8)	*Mon. Inform. Sh. Brit. Stand. Inst.*
Monthly Report of the Ministry of Agriculture. Northern Ireland	*Mon. Rep. Minist. Agric. N. Ire.*
National Farmers' Union Information Service (8)	*N.F.U. Inform. Serv.*
Nature (8)	*Nature, Lond.*
New Commonwealth	*New Commonw.*
New Phytologist (8)	*New Phytol.*
New Scientist	*New Scient.*
Notes from the Royal Botanic Gardens. Edinburgh (2)	*Notes roy. bot. Gdns, Edinb.*
Nutrition Abstracts and Reviews	*Nutr. Abstr. Rev.*
Outlook on Agriculture	*Outlook on Agric.*
Pest Infestation Research (8)	*Pest Infest. Res.*
Pest Technology (8)	*Pest Technol.*
Pesticide Abstracts and News Summary. Section C	*Pest. Abstr. (C)*
Plant Breeding Abstracts	*Pl. Breed. Abstr.*
Plant Pathology	*Pl. Path.*
Practical Power Farming. London	*Prac. Pwr Fmg, Lond.*
Proceedings of the Botanical Society of the British Isles (8)	*Proc. bot. Soc. Brit. Is*
Proceedings of the British Weed Control Conference	*Proc. Brit. Weed Contr.Conf.*
Proceedings of the Nutrition Society (8)	*Proc. Nutr. Soc.*
Proceedings of the Royal Society. London. Series B (8)	*Proc. roy. Soc. (B)*
Proceedings of the Royal Society of Edinburgh. Section B (7)	*Proc. roy. Soc. Edinb. (B)*
Progress. London	*Progress, Lond.*
Progress Reports from Experiment Stations. Empire Cotton Growing Corporation	*Progr. Reps Exp. Stas Emp. Cott. Gr. Corp.*
Quarterly Journal of the Royal Meteorological Society (2)	*Quart. J. roy. met. Soc.*
Quarterly Review. National Agricultural Advisory Service	*Quart. Rev. N.A.A.S.*
Quarterly Review of the Royal Agricultural Society of England	*Quart. Rev. roy. agric. Soc. Engl.*
Report and Accounts of the National Institute of Agricultural Botany	*Rep. Accts nat. Inst. agric. Bot.*
Report of the Agricultural and Horticultural Research Station. University of Bristol. Long Ashton	*Rep. agric. hort. Res. Sta. Long Ashton*
Report of the Agricultural Improvement Council for England and Wales	*Rep. agric. Improve. Coun.*
Report of the Agricultural Research Institute of Northern Ireland	*Rep. agric. Res. Inst. N. Ire.*
Report of the Aynsome Laboratories	*Rep. Aynsome Labs*
Report of the Colonial Development Corporation	*Rep. Colon. Devel. Corp.*
Report of the Colonial Products Council	*Rep. Colon. Prod. Coun.*
Report of the Committee for Colonial Agriculture, Animal Health and Forestry Research	*Rep. Cttee Col. Agric., anim. Hlth, for. Res.*

Title	Abbreviation used
GREAT BRITAIN—(*Continued*)	
Report of the Commonwealth Agricultural Bureaux Executive Council. Farnham Royal	*Rep. Commonw. agric. Bur., Farnham Royal*
Report of the Department of Hop Research. Wye College	*Rep. Dep. Hop Res., Wye Coll.*
Report of the Directorate of Colonial (Geodetic and Topographical) Surveys	*Rep. Dir. colon. Survs*
Report of the East Malling Research Station (8)	*Rep. E. Malling Res. Sta.*
Report of the Edinburgh and East of Scotland College of Agriculture	*Rep. Edinb. Coll. Agric.*
Report of the Food Investigation Board	*Rep. Fd Invest. Bd*
Report of the Glasgow and West of Scotland Agricultural College	*Rep. W. Scot. agric. Coll.*
Report of the Glasshouse Crops Research Institute	*Rep. Glasshouse Crops Inst.*
Report of the Grassland Research Institute. Hurley	*Rep. Grassl. Res. Inst., Hurley*
Report of the Hannah Dairy Research Institute	*Rep. Hannah Dairy Inst.*
Report of the Imperial Forestry Institute. Oxford	*Rep. imp. for. Inst. Oxf.*
Report of the John Innes Horticultural Institution (8)	*Rep. Innes hort. Instn*
Report of the Macaulay Institute for Soil Research	*Rep. Macaulay Inst. Soil Res.*
Report on the National Agricultural Advisory Service	*Rep. N.A.A.S.*
Report of the National Institute of Agricultural Botany. Cambridge	*Rep. nat. Inst. agric. Bot., Camb.*
Report of the National Institute of Agricultural Engineering (8)	*Rep. N.I.A.E.*
Report of the National Institute for Research in Dairying. Reading University (8)	*Rep. nat. Inst. Dairy., Reading*
Report of the National Vegetable Research Station. Wellesbourne, Warwick	*Rep. nat. veg. Res. Sta., Warwick*
Report of the Nature Conservancy	*Rep. Nat. Conserv.*
Report of the Norfolk Agricultural Station	*Rep. Norfolk agric. Sta.*
Report of the Nottingham University School of Agriculture (8)	*Rep. Nottingham Univ. Sch. Agric.*
Report of the Pea-growing Research Organization Ltd.	*Rep. Pea-growing Res. Org. Ltd.*
Report of the Principal to the Governing Body. Wye College	*Rep. Gov. Body, Wye Coll.*
Report of the Production Division, Milk Marketing Board (8)	*Rep. Prod. Div., Milk Mktg Bd*
Report of the Rothamsted Experiment Station	*Rep. Rothamsted exp. Sta.*
Report of the Scottish Society for Research in Plant Breeding	*Rep. Scot. Soc. Res. Pl. Breed.*
Report of the States Experimental Station. Jersey	*Rep. States exp. Sta., Jersey*
Report of Trial and Experimental Work. Throws, Little Dunmow	*Rep. exp. Wk, Throws*
Research Applied in Industry. London (2)	*Research appl. Industr., Lond.*
Research and Experimental Record of the Ministry of Agriculture. Northern Ireland	*Res. exp. Rec. Minist. Agric. N. Ire.*
Review of Applied Entomology	*Rev. appl. Ent.*
Review of Applied Mycology	*Rev. appl. Mycol.*
Scientific Horticulture	*Sci. Hort.*
Scottish Agriculture	*Scot. Agric.*
Soils and Fertilizers	*Soils and Ferts*
Span (Shell)	*Span*
Times Review of British Colonies (8)	*Times Rev. Brit. Colon.*
Times Review of Science (8)	*Times Rev. Sci.*
Transactions and Proceedings of the Botanical Society of Edinburgh (7)	*Trans. bot. Soc. Edinb.*
Transactions of the Royal Highland and Agricultural Society of Scotland	*Trans. roy. Highl. agric. Soc. Scot.*
Tropical Science	*Trop. Sci.*
Veterinary Bulletin. Weybridge (8)	*Vet. Bull., Weybridge*
Veterinary Record (8)	*Vet. Rec.*
Veterinary Reviews and Annotations (8)	*Vet. Rev. Annot.*
Watsonia (8)	*Watsonia*
Weather	*Weather*
Weed Abstracts	*Weed Abstr.*
World Crops	*World Crops*

Title	Abbreviation used
GREECE	
Report of the Hellenic Agricultural Research Station	*Rep. Hellen. agric. Res. Sta.*
HAWAII	
Pacific Science Hawaii (4)	*Pacif. Sci., Hawaii*
Report of the Agricultural Experiment Station. Hawaii	*Rep. agric. Exp. Sta., Hawaii*
HONG KONG	
Report of the Department of Agriculture, Fisheries and Forestry. Hong Kong	*Rep. Dep. Agric., Fish., For. Hong Kong*
HUNGARY	
Acta Agronomica Hungarica	*Acta agron. hung.*
Acta Biologica Hungarica	*Acta biol. hung.*
Agrokémia és Talajtan	*Agrokémia és Talaj.*
Az Agrártudományi Egyetem Állattenyésztési Karának Közleményei	*Az. Agrár. Egyetem Állatten. Karának Közlem*
Kisérletugyi Közlemények	*Kiséri. Közl.*
Növénytermelés	*Növénytermelés*
INDIA	
Agra University Journal of Research (Science) (6)	*Agra Univ. J. Res. (Sci.)*
Allahabad Farmer	*Allahabad Fmr*
Indian Agriculturist	*Indian Agric.*
Bulletin of the Botanical Society of Bengal (7)	*Bull. bot. Soc. Beng.*
Central Board of Irrigation Abstracts	*Cent. Bd Irrig. Abstr.*
Current Science	*Curr. Sci.*
Farmer. Bombay	*Farmer, Bombay*
Indian Cotton Growing Review	*Indian Cott. Gr. Rev.*
Indian Farming	*Indian Fmg*
Indian Journal of Agricultural Science	*Indian J. agric. Sci.*
Indian Journal of Agronomy	*Indian J. Agron.*
Indian Journal of Genetics and Plant Breeding	*Indian J. Genet.*
Indian Journal of Veterinary Science and Animal Husbandry	*Indian J. vet. Sci.*
Indian Oilseeds Journal	*Indian Oilseeds J.*
Indian Phytopathology (7)	*Indian Phytopath.*
Indian Veterinary Journal (9)	*Indian vet. J.*
INSDOC List of Current Scientific Literature	*INSDOC List curr. sci. Lit.*
Journal of the Indian Botanical Society (7)	*J. Indian bot. Soc.*
Journal of the Indian Society of Soil Science	*J. Indian Soc. Soil Sci.*
Journal of Scientific Research. Banaras Hindu University	*J. sci. Res., Banaras*
Journal of Soil and Water Conservation in India	*J. Soil Wat. Conserv., India*
Journal of the University of Bombay. Section B (3)	*J. Univ. Bombay (B)*
Jute Bulletin	*Jute Bull.*
Madras Agricultural Journal	*Madras agric. J.*
Mysore Agricultural Calendar and Year Book	*Mysore agric. Calendar Yearb.*
Mysore Agricultural Journal	*Mysore agric. J.*
Phytomorphology (8)	*Phytomorphology*
Poona Agricultural College Magazine (3)	*Poona agric. Coll. Mag.*
Proceedings of the Indian Academy of Sciences. Part B (3)	*Proc. Indian Acad. Sci. (B)*
Proceedings of the National Institute of Sciences. India. Part B	*Proc. nat. Inst. Sci. India (B)*
Report of the Bose Research Institute (8)	*Rep. Bose Res. Inst.*

Title	Abbreviation used
INDIA—(*Continued*)	
Report of the Central Rice Research Institute. Cuttack	*Rep. Rice Res. Inst., Cuttack*
Report of the Department of Agriculture. Mysore State. Administration	*Rep. Dep. Agric. Mysore, Adm.*
Report of the Indian Central Cotton Committee	*Rep. Indian Cott. Cttee*
Report of the Indian Central Jute Committee	*Rep. Indian Jute Cttee*
Report of the Indian Council of Agricultural Research. New Delhi	*Rep. Indian Coun. agric. Res., New Delhi*
Report of the Institute of Plant Industry. Indore	*Rep. Inst. Pl. Industr., Indore*
Rice News Teller	*Rice News Tell.*
Science and Culture	*Sci. and Cult.*
Technical Bulletin of the Bureau of Agricultural Information. Uttar Pradesh	*Tech. Bull. Bur. agric. Inf., Uttar Pradesh*
Transactions of the Bose Research Institute (8)	*Trans. Bose Res. Inst.*
INDONESIA	
Annales Bogorienses (7)	*Ann. bogir.*
Menara Perkebunan	*Menara Perkebunan*
INTERNATIONAL	
Fibra	*Fibra*
Report of the Barley Committee. European Brewery Convention	*Rep. Barley Cttee Europ. Brew. Conv.*
Fatis Review (O.E.E.C.)	*Fatis Rev.*
International Rice Commission News Letter (F.A.O.)	*Internat. Rice Comm. News Lett.*
Plant Protection Bulletin (F.A.O.)	*Pl. Prot. Bull.*
Proceedings of the International Grassland Congress	*Proc. internat. Grassl. Cong.*
Proceedings of the International Seed Testing Association	*Proc. internat. Seed Test. Ass.*
Quarterly Bulletin of the International Association of Agricultural Librarians and Documentalists	*Quart. Bull. internat. Ass. agric. Librns Documents*
Report of the International Crop Improvement Association	*Rep. internat. Crop Improve. Ass.*
Unesco Bulletin for Libraries	*Unesco Bull. Lib.*
IRELAND, REPUBLIC OF	
Agricultural Ireland (8)	*Agric. Ire.*
Economic Proceedings of the Royal Dublin Society	*Econ. Proc. roy. Dublin Soc.*
Journal of the Department of Agriculture. Republic of Ireland	*J. Dep. Agric. Republ. Ire.*
Notes from the Botanical School, Trinity College, Dublin (7)	*Notes bot. Sch. Trin. Coll., Dublin*
Report of the Minister for Agriculture. Republic of Ireland	*Rep. Minist. Agric. Republ. Ire.*
Scientific Proceedings of the Royal Dublin Society	*Sci. Proc. roy. Dublin Soc.*
ISRAEL	
Bulletin of the Research Council. Israel. Section B. Biology and Geology	*Bull. Res. Coun. Israel (B)*
Bulletin of the Research Council. Israel. Section D. Botany	*Bull. Res. Coun. Israel (D)*
Ktavim. Records of the Agricultural Research Station. Israel	*Ktavim, Israel*
ITALY	
Agricoltura delle Venezie (3)	*Agricoltura d. Venezie*
Allionia (7)	*Allionia*
Annali di Botanica. Roma (12)	*Ann. Bot., Roma*
Annali della Facoltà di Agraria. Università di Bari	*Ann. Fac. Agr., Bari*
Annali della Facoltà di Agraria. Università di Milano	*Ann. Fac. Agr., Milano*
Annali della Facoltà di Agraria. Università di Perugia (3)	*Ann. Fac. Agr., Perugia*
Annali della Facoltà di Agraria. Università del S. Cuore. Milano	*Ann. Fac. Agr., S. Cuore*
Annali della Sperimentazione Agraria	*Ann. Sper. agr.*

Title	Abbreviation used
ITALY—(*Continued*)	
Annali della Stazione Chimico-Agraria Sperimentale di Roma	*Ann. Sta. chim.-agr., Roma*
Annali della Stazione Sperimentale di Risicoltura. Vercelli	*Ann. Sta. sper. Risicolt., Vercelli*
Atti del Centro Nazionale Meccanico Agricolo. Torino	*Atti Cent. naz. mecc. agric., Torino*
Genetica Agraria (3)	*Genet. agr.*
Geofisica Pura e Applicata (7)	*Geofis. pur. appl.*
Giornale di Agricoltura della Domenica	*G. Agric. Domen.*
Industria Saccarifera Italiana	*Industr. saccar. ital.*
Italia Agricola	*Ital. agric.*
Maydica	*Maydica*
Nuovo Giornale Botanico Italiano	*Nuovo G. bot. ital.*
Rapporto della Stazione Sperimentale Agraria di Bari	*Rapp. Sta. sper. agr., Bari*
Rapporto della Stazione Sperimentale di Bieticoltura di Rovigo	*Rapp. Sta. sper. Bieticolt., Rovigo*
Rapporto della Stazione Sperimentale di Granicoltura di Catania	*Rapp. Sta. sper. Granicolt., Catania*
Rapporto della Stazione Sperimentale di Praticoltura di Lodi	*Rapp. Sta. sper. Praticolt., Lodi*
Ricerca Scientifica	*Ric. sci.*
Riso	*Riso*
Rivista di Agricoltura Subtropicale e Tropicale (2)	*Riv. Agric. subtrop.*
Rivista di Zootecnia. Milano (1)	*Riv. Zootec., Milano*
Sementi Elette	*Sementi elette*
Webbia (7)	*Webbia*
JAPAN	
Annals of the Phytopathological Society of Japan (10)	*Ann. phytopath. Soc. Japan*
Berichte des Ohara Instituts für Landwirtschaftliche Biologie	*Ber. Ohara Inst.*
Botanical Magazine. Tokyo (10)	*Bot. Mag., Tokyo*
Bulletin of the Division of Plant Breeding and Cultivation, Tokai-Kinki National Agricultural Experiment Station	*Bull. Div. Pl. Breed. Cult., Tokai-Kinki*
Bulletin of the Faculty of Agriculture. Hirosaki University (2)	*Bull. Fac. Agric., Hirosaki*
Bulletin of the Faculty of Agriculture. Kagoshima University (8)	*Bull. Fac. Agric., Kagoshima*
Bulletin of the Faculty of Agriculture. Miyazaki University	*Bull. Fac. Agric., Miyazaki*
Bulletin of the Faculty of Agriculture. Shizuoka University	*Bull. Fac. Agric., Shizuoka*
Bulletin of the Faculty of Agriculture. Yamaguti University	*Bull. Fac. Agric., Yamaguti*
Bulletin of the University of Osaka Prefecture. Series B	*Bull. Univ. Osaka (B)*
Bulletin of the Yamagata University (Agricultural Science) (3)	*Bull. Yamagata Univ. (Agric. Sci.)*
Ecological Review. Tôhoku	*Ecol. Rev., Tôhoku*
Japanese Journal of Botany (5)	*Japan. J. Bot.*
Journal of the Faculty of Agriculture. Iwate University (5)	*J. Fac. Agric., Iwate*
Journal of the Faculty of Agriculture. Kyushu University (8)	*J. Fac. Agric., Kyushu*
Journal of the Faculty of Agriculture. Shinshu University (3)	*J. Fac. Agric., Shinshu*
Journal of the Faculty of Agriculture. Tottori University	*J. Fac. Agric., Tottori*
Journal of the Horticultural Association of Japan (2)	*J. hort. Ass. Japan*
Journal of the Kanto-Tosan Agricultural Experiment Station	*J. Kanto-Tosan agric. Exp. Sta.*
Memoirs of the Ehime University. Section 6	*Mem. Ehime Univ. (6)*
Memoirs of the Faculty of Agriculture. Kagoshima University (8)	*Mem. Fac. Agric., Kagoshima*
Memoirs of the Faculty of Agriculture. Miyazaki University	*Mem. Fac. Agric., Miyazaki*
Memoirs of the Hyogo Prefectural University of Agriculture (8)	*Mem. Hyogo Prefect. Univ. Agric.*
Proceedings of the Crop Science Society of Japan	*Proc. Crop Sci. Soc. Japan*
Proceedings of the Japan Academy (8)	*Proc. Japan Acad.*
Records of Researches, Faculty of Agriculture. Tokyo University	*Rec. Res. Fac. Agric., Tokyo*
Research Bulletin of the Hokkaido National Experiment Station	*Res. Bull. Hokkaido nat. agric. Exp. Sta.*
Science Bulletin of the Faculty of Agriculture. Kyushu University (8)	*Sci. Bull. Fac. Agric., Kyushu*
Science Reports of the Research Institutes. Tôhoku University. Series D	*Sci. Reps Res. Inst. Tôhoku (D)*
Soil and Plant Food	*Soil Pl. Fd*
Technical Bulletin of the Kagawa Agricultural College	*Tech. Bull. Kagawa agric. Coll.*
Tôhoku Journal of Agricultural Research	*Tôhoku J. agric. Res.*
Transactions of the Tottori Society of Agricultural Science	*Trans. Tottori Soc. agric. Sci.*

Title	Abbreviation used
MADAGASCAR	
Bulletin de Madagascar	*Bull. Madagascar*
MALAYA, FEDERATION OF	
Garden's Bulletin. Singapore (7)	*Gdn's Bull.*
Malayan Agricultural Journal	*Malay. agric. J.*
Malayan Journal of Tropical Geography (7)	*Malay. J. trop. Geogr.*
Report of the Botanical Gardens, Department of Agriculture. Singapore	*Rep. bot. Gdns, Dep. Agric., Singapore*
Report of the Department of Agriculture. Malaya	*Rep. Dep. Agric. Malaya*
MAURITIUS	
Report of the Department of Agriculture. Mauritius	*Rep. Dep. Agric. Mauritius*
Revue Agricole et Sucrière de l'Île Maurice (2)	*Rev. agric. suc. Maurice*
Report of the Mauritius Institute	*Rep. Mauritius Inst.*
Report of the Sugar Industry Research Institute. Mauritius	*Rep. Sug. Industr. Res. Inst. Mauritius*
NETHERLANDS	
Acta Botanica Néerlandica. Amsterdam (7)	*Acta bot. néerl.*
Antonie van Leeuwenhoek ; Nederlandsch Tijdschrift voor Hygiëne, Microbiologie en Serologie (7)	*Leeuwenhoek ned. Tijdschr.*
Biochimica et Biophysica Acta (7)	*Biochim. biophys. Acta*
Blumea (7)	*Blumea*
Entomologia Experimentalis et Applicata (8)	*Ent. exp. et appl.*
Euphytica	*Euphytica*
European Potato Journal	*Europ. Potato J.*
Jaarboek. Instituut voor Biologisch en Scheikundig Onderzoek van Landbouwgewassen	*Jaarb. Inst. Biol. Scheik. Onderz. LandbGew.*
Jaarboekje van het Nationaal Comité voor Brouwgerst	*Jaarb. NaCoBrouw.*
Jaarboekje van de Stichting Nederlands Graan-Centrum	*Jaarb. Ned. Graan-Centrum*
Jaarboekje van de Stichting voor Coördinatie van Cultuur en Onderzoek van Broodgraan	*Jaarb. CoCoBro.*
Jaarverslag. Centrum voor Plantenfysiologisch Onderzoek	*Jaarversl. Cent. Plantenfysiol. Onderz.*
Jaarverslag. Instituut voor Biologisch en Scheikundig Onderzoek van Landbouwgewassen	*Jaarversl. Inst. Biol. Scheik. Onderz. LandbGew.*
Jaarverslag. Instituut voor Cultuurtechniek on Waterhuishouding	*Jaarversl. Inst. CultTech. Waterhuis.*
Jaarverslag. Instituut voor Landbouwtechniek en Rationalisatie	*Jaarversl. Inst. LandbTech. Rational.*
Jaarverslag. Landbouw-Economisch Instituut	*Jaarversl. Landb.-Econ. Inst.*
Jaarverslag. Nederlandse Algemene Keuringsdienst	*Jaarversl. ned. Keuringsd.*
Jaarverslag. Stichting C.L.O.-Contrôle (8)	*Jaarversl. Sticht. C.L.O.-Contr.*
Landbouwdocumentatie	*LandbDocum.*
Landbouwkundig Tijdschrift. Wageningen	*Landbouwk. Tijdschr., Wageningen*
Landbouwmechanisatie	*LandbMechanisatie*
Landbouwvoorlichting	*LandbVoorl.*
Mededeelingen van het Botanisch Museum en Herbarium van de Rijks-Universiteit te Utrecht (7)	*Meded. bot. Mus. Rijksuniv. Utrecht*
Mededelingen van het Instituut voor Rationele Suikerproductie	*Meded. Inst. rat. Suikerprod.*
Mededeelingen. Nationale Coöperatieve Aan- en Verkoopvereniging voor de Landbouw. " Centraal Bureau " G.A.	*Meded. nat. coöp. Aan- en Verkoopv. Landb. Cent. Bur.*
Mededelingen van de Nederlandse Algemene Keuringsdienst voor Landbouwzaden en Aardappelpootgoed	*Meded. ned. Keuringsd.*
Nematologica (8)	*Nematologica*
Netherlands Journal of Agricultural Science	*Neth. J. agric. Sci.*
Plant and Soil (8)	*Plant and Soil*
Potato News from the Netherlands	*Pot. News Neths*
Qualitas Plantarum et Materiae Vegetabiles (2)	*Qual. Plant. et Materiae veg.*

Title	Abbreviation used
NETHERLANDS—(*Continued*)	
Rappor tvan de Commissie ter Bevordering der Suikerbietenteelt in de Noordelijke Provinciën [Cont. in *Meded. Inst. rat. Suikerprod.*]	*Rapp. Comm. Bevord. Suikerbiet. Noord. Prov.*
Stikstof	*Stikstof*
Suikerbiet	*Suikerbiet*
Technische Berichten Peulvruchten Studie Combinatie	*Tech. Ber. Peulvrucht.*
Tijdschrift over Planteziekten (2)	*Tijdschr. PlZiekt.*
TNO Nieuws	*TNO Nieuws*
Tropical Abstracts	*Trop. Abstr.*
V.C.S. Bode	*V.C.S. Bode*
Vegetatio, Acta Geobotanica. Haag	*Vegetatio, Haag*
Verslag. Instituut voor Bewaring en Verwerking van Landbouwproducten	*Versl. Inst. Bewar. Verwerk. LandbProd.*
Verslag. Instituut voor Bodemvruchtbaarheid. Groningen	*Versl. Inst. Bodemvrucht., Groningen*
Verslag. Peulvruchten Studie Combinatie	*Versl. Peulvrucht.*
Verslag. Proefstation voor de Akker- en Weidebouw	*Versl. Proefst. Akker. Weidebouw*
Verslag. Rijkslandbouwproefstation. Groningen	*Versl. Rijkslandb. Proefst., Groningen*
Verslag. Tienjarenplan voor Graanonderzoek	*Versl. Tienjarenplan Graanonderz.*
Verslag van de Vereniging tot Exploitatie ener Proefzuivelboerderij te Hoorn	*Versl. Proefzuivelboerderij Hoorn*
Werkzaamheden. Instituut voor Toegepast Biologisch Onderzoek in de Natuur	*Werkzaamheden ITBON*
NEW ZEALAND	
Annual Review of the Canterbury Agricultural College	*Annu. Rev. Canterbury (N.Z.) agric. Coll.*
Canterbury Chamber of Commerce Agricultural Bulletin	*Canterbury (N.Z.) Agric. Bull.*
Dairy Farming Annual	*Dairy-fmg Annu.*
New Zealand Geographer	*N.Z. Geogr*
New Zealand Geographical Society Record	*N.Z. geogr. Soc. Rec.*
New Zealand Journal of Agricultural Research	*N.Z. J. agric. Res.*
New Zealand Journal of Agriculture	*N.Z. J. Agric.*
New Zealand Journal of Science	*N.Z. J. Sci.*
New Zealand Official Yearbook	*N.Z. off. Yearb.*
New Zealand Veterinary Journal	*N.Z. vet. J.*
New Zealand Wheat Review	*N.Z. Wheat Rev.*
Proceedings of the Lincoln College Farmers' Conference	*Proc. Lincoln Coll. Fmrs' Conf.*
Proceedings of the New Zealand Grassland Association Conferences	*Proc. N.Z. Grassl. Ass. Confs*
Proceedings of the New Zealand Society of Animal Production	*Proc. N.Z. Soc. Anim. Prod.*
Proceedings of the New Zealand Weed Control Conference	*Proc. N.Z. Weed Contr. Conf.*
Proceedings of the Ruakura Farmers' Conference	*Proc. Ruakura Fmrs' Conf.*
Report of the Cawthron Institute for Scientific Research	*Rep. Cawthron Inst.*
Report of the Department of Agriculture. New Zealand	*Rep. Dep. Agric. N.Z.*
Report of the Department of Scientific and Industrial Research. New Zealand	*Rep. Dep. Sci. industr. Res. N.Z.*
Sheep-farming Annual	*Sheep-fmg Annu.*
Transactions and Proceedings of the Royal Society of New Zealand (7)	*Trans. roy. Soc. N.Z.*
NORTH BORNEO	
Report of the Department of Agriculture. North Borneo	*Rep. Dep. Agric. N. Borneo*
NORWAY	
Forskning og Forsøk i Landbruket	*Forskn. Fors. Landbr.*
Meddelelser fra det Norske Myrselskap	*Medd. norske Myrselsk.*
Meldinger fra Norges Landbrukshøiskole	*Meld. Norg. LandbrHøisk.*
Melding fra Statens Frøkontroll i Ås	*Meld. Stat. Frøkontroll Ås*
Norske Fjellbeite	*Norske Fjellb.*
Norsk Landbruk	*Norsk. Landbr.*
Tidsskrift for det Norske Landbruk	*Tidsskr. norske Landbr.*

Title	Abbreviation used
PAKISTAN	
Pakistan Cottons (3)	*Pakist. Cotts*
Pakistan Journal of Forestry (7)	*Pakist. J. For.*
Pakistan Journal of Science	*Pakist. J. Sci.*
Pakistan Journal of Scientific Research	*Pakist. J. sci. Res.*
PAPUA AND NEW GUINEA	
Papua and New Guinea Agricultural Journal	*Papua agric. J.*
PHILIPPINE REPUBLIC	
Philippine Agriculturist (2)	*Philipp. Agriculturist*
Philippine Journal of Agriculture (2)	*Philipp. J. Agric.*
Philippine Journal of Science (10)	*Philipp. J. Sci.*
POLAND	
Acta Agrobotanica (7)	*Acta agrobot.*
Acta Microbiologica Polonica	*Acta. microbiol. Polon.*
Annales Universitatis Mariae Curie-Skłodowska	*Ann. Univ. M. Curie-Sklodowska*
Bulletin de l'Académie Polonaise des Sciences (8)	*Bull. Acad. polon. Sci.*
Hodowla Róslin, Aklimatyzacja i Nasiennictwo	*Hod. Róslin. Aklimat. Nasien.* (*Pl. Breed. Acclim. Seed. Prod.*)
Monographiae Botanicae (7)	*Monogr. bot.*
Polish Technical Abstracts (4)	*Pol. tech. Abstr.*
Quarterly Review of the Polish Academy of Science	*Quart. Rev. Polish Acad. Sci.*
Roczniki Nauk Rolniczych	*Roczn. Nauk rol.*
PORTUGAL	
Agronomia Lusitana	*Agron. lusit.*
Agros. Lisboa	*Agros, Lisboa*
Anais do Instituto Superior de Agronomia. Lisboa (3)	*An. Inst. sup. Agron., Lisboa*
Boletim da Sociedade Broteriana	*Bol. Soc. broteriana*
Garcia de Orta. Lisboa	*Garcia de Orta, Lisboa*
Melhoramento (8)	*Melhoramento*
Memórias da Sociedade Broteriana	*Mem. Soc. broteriana*
Portugaliae Acta Biologica. Series A, B	*Portug. Acta biol.* (*A*) (*B*)
Revista Agronómica. Lisboa	*Rev. agron., Lisboa*
RÉUNION	
Revue Agricole de l'Île de Réunion (3)	*Rev. agric., Réunion*
ROMANIA	
Analele Institutului de Cercetări Agronomice	*Anal. Inst. Cercetări agron.*
Anuarul lucrărilor ştiinţifice	*Anu. Lucrăr. ştiinţ.*
SARAWAK	
Report of the Department of Agriculture. Sarawak	*Rep. Dep. Agric. Sarawak*
Sarawak Museum Journal	*Sarawak Mus. J.*
SEYCHELLES	
Report of the Department of Agriculture. Seychelles	*Rep. Dep. Agric. Seychelles*
SOLOMON ISLANDS	
Report of the Department of Agriculture. Solomon Islands	*Rep. Dep. Agric. Solomon Is*

Title	Abbreviation used

SOUTH AND CENTRAL AMERICA

ARGENTINA	
Anales de la Sociedad Científica Argentina (10)	*An. Soc. cient. argent.*
Boletín de Producción y Fomento Agrícola. Buenos Aires	*Bol. Prod. Fom. agríc., B. Aires*
Darwiniana. Buenos Aires	*Darwiniana, B. Aires*
Idia	*Idia*
Lilloa	*Lilloa*
Phyton	*Phyton*
Revista Agronómica Noroeste Argentino	*Rev. agron. Noroeste argent.*
Revista Argentina de Agronomía	*Rev. argent. Agron.*
Revista de la Facultad de Agronomía. La Plata	*Rev. Fac. Agron., La Plata*
Revista de la Facultad de Agronomía y Veterinaria. Buenos Aires.	*Rev. Fac. Agron., B. Aires*
Revista de la Facultad de Ciencias Agrarias. Mendoza	*Rev. Fac. Cienc. agr., Mendoza*
Revista Industrial y Agrícola de Tucumán	*Rev. industr. agríc., Tucumán*
Revista de Investigaciones Agrícolas. Buenos Aires	*Rev. Invest. agríc., B. Aires*
BOLIVIA	
Revista de Agricultura. Cochabamba	*Rev. Agric., Cochabamba*
BRAZIL	
Agronomia. Rio de Janeiro	*Agronomia, Rio de J.*
Agronômico. Campinas	*Agronômico, Campinas*
Agros. Pelotas	*Agros, Pelotas*
Anais da Escola Superior de Agricultura. Luis de Queiroz (3)	*An. Esc. Agric., Queiroz*
Archivos do Instituto Biológico. São Paulo (10)	*Arch. Inst. biol., S. Paulo*
Archivos do Jardim Botânico. Rio de Janeiro (7)	*Arch. Jard. bot., Rio de J.*
Archivos do Serviço Florestal do Brasil	*Arch. Serv. flor. Brasil*
Biológico. São Paulo (3)	*Biológico, S. Paulo*
Boletim da Diretoria da Produção Animal	*Bol. Dir. Prod. anim.*
Boletim Estatístico mensal	*Bol. estatís. mens.*
Boletim de Indústria Animal	*Bol. Industr. anim.*
Bragantia	*Bragantia*
Lavoura Arrozeira	*Lavour. arroz.*
Revista de Agricultura. Piracicaba	*Rev. Agric., Piracicaba*
Revista Ceres. Minas Gerais	*Ceres, Minas Gerais*
Revista dos Criadores	*Rev. Criad.*
Rodriguesia	*Rodriguesia*
Sellowia	*Sellowia*
BRITISH GUIANA	
Administration Report of the Department of Agriculture. British Guiana	*Admin. Rep. Dep. Agric. Brit. Guiana*
Agriculture in British Guiana. Census	*Agric. Brit. Guiana, Census*
Report of the Meteorology of British Guiana	*Rep. Met. Brit. Guiana*
CHILE	
Agricultura Técnica. Santiago de Chile	*Agricultura téc., Santiago*
COLOMBIA	
Acta Agronómica. Palmira	*Acta agron., Palmira*
Agricultura Tropical. Bogotá	*Agric. trop., Bogotá*
Boletín Técnico. Chinchiná	*Bol. téc., Chinchiná*
Revista de la Facultad Nacional de Agronomía. Medellín	*Rev. Fac. nac. Agron., Medellín*
COSTA RICA	
Revista de Agricultura. Costa Rica	*Rev. Agric., Costa Rica*
Suelo Tico (2)	*Suelo tico*
Turrialba	*Turrialba*

Title	Abbreviation used

SOUTH AND CENTRAL AMERICA—(*Continued*)

ECUADOR	
Ciencia y Naturaleza	*Ciencia y Natur.*
Flora. Quito (7)	*Flora, Quito*
GUATEMALA	
Informe. Ministerio de Agricultura. Guatemala	*Inf. Minist. Agric. Guatemala*
MEXICO	
Agricultura técnica. México	*Agricultura téc., Méx.*
Anales del Instituto de Biología. Universidad de México (3)	*An. Inst. Biol., Méx.*
Ciencia. México	*Ciencia, Méx.*
PERU	
Agronomía. Lima (3)	*Agronomía, Lima*
Boletín Trimestral de Experimentación Agropecuaria. Lima	*Bol. trim. Exp. agropec., Lima*
Informe Mensual Estación Experimental agrícola. La Molina	*Inf. mens. Esta. exp. agríc., La Molina*
SURINAM	
Surinaamse Landbouw	*Surinaam. Landb.*
URUGUAY	
Anales de la Facultad de Veterinaria del Uruguay	*An. Fac. vet., Urug.*
Archivos de la Sociedad de Biología de Montevideo	*Arch. Soc. Biol., Montevideo*
Propaganda Rural. Montevideo	*Prop. rur., Montevideo*
Revista de la Asociación de Ingenieros Agrónomos. Montevideo	*Rev. Asoc. Ing. agrón., Montevideo*
Revista de la Facultad de Agronomía. Montevideo	*Rev. Fac. Agron., Montevideo*
Revista Sudamericana de Botanica (7)	*Rev. sudamer. Bot.*
VENEZUELA	
Agricultor Venezolano	*Agricultor venezol.*
Agronomía Tropical. Maracay	*Agron. trop., Maracay*
Resumen de Actividades. Servicio Shell para el Agricultor	*Res. Activ. Serv. Shell Agric.*
Revista de la Facultad de Agronomía. Maracay	*Rev. Fac. Agron., Maracay*
Revista Pecuaria. Caracas	*Rev. Pec., Caracas*

SOUTH PACIFIC

Quarterly Bulletin of the South Pacific Commission	*Quart. Bull. S. Pacif. Comm.*

SPAIN

Agricultura. Madrid	*Agricultura, Madr.*
Anales de Edafología y Fisiología Vegetal	*An. Edafol. Fisiol. veg.*
Anales de la Escuela de Peritos Agrícolas. Barcelona	*An. Esc. Perit. agríc., Barcelona*
Anales de la Estación Experimental de Aula Dei (8)	*An. Esta. exp. Aula Dei*
Anales del Instituto Botánico A. J. Cavanilles	*An. Inst. bot., Cavanilles*
Anales del Instituto Nacional de Investigaciones Agronómicas	*An. Inst. nac. Invest. agron.*
Archivos del Instituto de Aclimatación	*Arch. Inst. Aclim.*
Boletín Agro-Pecuario	*Bol. agro-pec.*
Boletín del Instituto Nacional de Investigaciones Agronómicas	*Bol. Inst. nac. Invest. agron.*
Informe. Estación Experimental de Aula Dei	*Inf. Esta. exp. Aula Dei*
Memoria. Instituto Nacional de Investigaciones Agronómicas	*Mem. Inst. nac. Investig. agron.*
Publicaciones del Instituto de Biología aplicada. Barcelona (7)	*Publ. Inst. Biol. apl., Barcelona*

SWEDEN

Acta Agriculturae Scandinavica	*Acta Agric. scand.*
Acta Phytogeographica Suecica (7)	*Acta phytogeogr. suec.*
Agri Hortique Genetica. Landskrona	*Agri hort. Genet., Landskrona*

Title	Abbreviation used
SWEDEN—(*Continued*)	
Annales Academiae Regiae Scientiarum Upsaliensis	*Ann. Acad. Reg. Scient. Upsal.*
Försök och Forskning	*Försök Forskn.*
Hereditas. Lund	*Hereditas, Lund*
Jordbrukarnas Föreningsblad	*Jordbr. FörenBl.*
Kungl. Lantbrukshögskolans Annaler	*K. LantbrHögsk. Ann.*
Kungl. Skogs- och Lantbruksakademiens Tidskrift	*K. Skogs LantbrAkad. Tidskr.*
Lantmannen Svenskt Land	*Lantm. Svenskt Land.*
Meddelanden från Gullåkers Växtförädlingsanstalt. Hammenhög	*Medd. Gullak. VäxtförädlAnst.*
Meddelanden från Jordbrukstekniska Institutet. Uppsala	*Medd. jordbrTek. Inst., Uppsala*
Meddelanden från Statens Centrala Frökontrollanstalt. Stockholm	*Medd. Frökontrollanst., Stockh.*
Meddelanden från Statens Jordbruksförsök. Uppsala	*Medd. Stat. JordbrFörsök, Uppsala*
Meddelanden från Statens Jordbruksförsök. Stockholm	*Medd. Stat. JordbrFörsök, Stockh.*
Meddelanden från Statens Växtskyddsanstalt. Stockholm	*Medd. Stat. Växtskyddsanst., Stockh.*
Näringsforskning	*Näringsforskning*
Socker	*Socker*
Svensk Botanisk Tidskrift (7)	*Svensk bot. Tidskr.*
Svensk Frötidning	*Svensk Frötidn.*
Svensk Geografisk Årsbok	*Svensk geogr. Årsb.*
Sveriges Utsädesförenings Tidskrift	*Sverig. Utsädesfören. Tidskr.*
Växt-närings-Nytt	*Växt-närings-Nytt*
Växtskyddsnotiser. Stockholm	*Växtskyddsnotiser, Stockh.*
Weibulls Årsbok	*Weibulls Årsb.*
SWITZERLAND	
Alpwirtschaftliche Monatsblätter	*Alpw. Mbl.*
Bericht über das Geobotanische Forschungsinstitut Rübel in Zürich	*Ber. geobot. ForschInst. Rübel*
Candollea (7)	*Candollea*
Communiqés de l'Association pour le Développement de la Culture Fourragère	*Commun. A.D.C.F.*
Experientia (5)	*Experientia*
Jahresbericht. Schweizerischer Alpwirtschaftlicher Verein	*Jahresber. schweiz. alpw. Verein*
Landwirtschaftliches Jahrbuch der Schweiz	*Landw. Jahrb. Schweiz*
Mitteilungen der Arbeitsgemeinschaft zur Förderung des Futterbaues	*Mitt. ArbGemeinsch. Förd. Futterbau*
Mitteilungen für die Schweizerische Landwirtschaft	*Mitt. schweiz. Landw.*
Rapport d'Activité de l'Association pour le Développement de la Culture Fourragère. Changins sur Nyon	*Rapp. Activité A.D.C.F., Changins sur Nyon*
Rapport. Stations Fédérales d'Essais Agricoles de Mont-Calme et de Montagibert, Lausanne et Pully	*Rapp. Sta. féd. Essais agric. Mont-Calme, Montagibert, Lausanne et Pully*
Revue Romande d'Agriculture. Lausanne	*Rev. rom. Agric.*
Schweizerische Landwirtschaftliche Monatshefte	*Schweiz. landw. Mh.*
Tätigkeitsbericht. Arbeitsgemeinschaft zur Förderung des Futterbaues	*TätigBer. ArbGemeinsch. Förd. Futterbau*
Tätigkeitsbericht. Eidgenossische Landwirtschaftliche Versuchsanstalt. Zürich-Oerlikon	*TätigkBer. Eidg. landw. Versuchsanst., Zürich-Oerlikon*
TURKEY	
Report of the Ankara Agricultural Research Institute	*Rep. Ankara agric. Res. Inst.*
USA	
Advances in Agronomy	*Advanc. Agron.*
Agricultural Chemicals	*Agric. Chem.*
Agricultural Engineering. St. Joseph, Michigan	*Agric. Engng, St. Joseph, Mich.*
Agricultural Research in Review. Maryland	*Agric. Res. in Rev., Md*
Agricultural Research in South Dakota	*Agric. Res., S. Dak.*
Agronomy Abstracts	*Agron. Abstr.*
Agronomy Journal (8)	*Agron. J.*
American Journal of Botany (8)	*Amer. J. Bot.*

Title	Abbreviation used
USA—(*Continued*)	
American Journal of Veterinary Research (8)	*Amer. J. vet. Res.*
American Naturalist (7)	*Amer. Nat.*
American Potato Journal	*Amer. Potato J.*
American Potato Yearbook	*Amer. Potato Yearb.*
Annals of the Missouri Botanical Garden	*Ann. Mo. bot. Gdn*
Annual Review of Biochemistry (8)	*Annu. Rev. Biochem.*
Annual Review of Plant Physiology	*Annu. Rev. Pl. Physiol.*
Archives of Biochemistry (7)	*Arch. Biochem.*
Arizona Agriculture	*Ariz. Agric.*
Arkansas Farm Research	*Ark. Fm Res.*
Better Crops with Plant Food	*Bett. Crops*
Bibliography of Agriculture. USDA	*Bibliogr. Agric. USDA*
Bi-monthly Bulletin of North Dakota Agricultural Experiment Station	*Bi-mon. Bull. N. Dak. agric. Exp. Sta.*
Biological Abstracts. Section D	*Biol. Abstr. (D)*
Botanical Gazette (8)	*Bot. Gaz.*
Botanical Review (8)	*Bot. Rev.*
Bulletin of the Department of Agriculture. California	*Bull. Dep. Agric. Calif.*
Bulletin of the Ecological Society of America	*Bull. ecol. Soc. Amer.*
Bulletin of the Torrey Botanical Club (2)	*Bull. Torrey bot. Cl.*
Butler University Botanical Studies	*Butler Univ. bot. Stud.*
California Agriculture	*Calif. Agric.*
Cereal Chemistry	*Cereal Chem.*
Contributions from Boyce Thompson Institute for Plant Research (8)	*Contr. Boyce Thompson Inst.*
Dissertation Abstracts (4)	*Diss. Abstr.*
Down to Earth	*Down to Earth*
Dupont Agricultural News-Letter (2)	*Dupont agric. News-Lett.*
Ecological Monographs	*Ecol. Monogr.*
Ecology	*Ecology*
Economic Botany	*Econ. Bot.*
Economic Geography	*Econ. Geogr.*
Experimental Parasitology (8)	*Exp. Parasit.*
Farm Chemicals	*Fm Chem.*
Farm and Home Science. Utah	*Fm Home Sci.*
Farm Research. Cornell	*Fm Res.*
Foreign Agriculture	*Foreign Agric.*
Geographical Review	*Geogr. Rev.*
Growth	*Growth*
Hilgardia (8)	*Hilgardia*
Idaho Agricultural Science	*Idaho agric. Sci.*
International Journal of Applied Radiation and Isotopes (8)	*Internat. J. appl. Rad. and Isot.*
International Rice Yearbook	*Internat. Rice Yearb.*
Iowa Farm Science	*Iowa Fm Sci.*
Iowa State College Journal of Science	*Iowa State Coll. J. Sci.*
Journal of Agricultural and Food Chemistry (8)	*J. agric. fd Chem.*
Journal of the American Society of Sugar Beet Technologists	*J. Amer. Soc. Sug. Beet Technol.*
Journal of Animal Science (8)	*J. Anim Sci.*
Journal of the Arnold Arboretum (4)	*J. Arnold Arbor.*
Journal of the Association of Official Agricultural Chemists. Washington (8)	*J. Ass. off. agric. Chem., Wash.*
Journal of Dairy Science (8)	*J. Dairy Sci.*
Journal of Economic Entomology (8)	*J. econ. Ent.*
Journal of the Elisha Mitchell Scientific Society (10)	*J. Elisha Mitchell sci. Soc.*
Journal of Forestry (4)	*J. For.*
Journal of Nutrition	*J. Nutr.*
Journal of Parasitology (8)	*J. Parasit.*
Journal of Range Management	*J. Range Mgnt*
Lloydia (2)	*Lloydia*

Title	Abbreviation used
USA—(*Continued*)	
Maine Farm Research	*Maine Fm Res.*
Mississippi Farm Research	*Miss. Fm Res.*
Mycologia (8)	*Mycologia*
New Jersey Agriculture	*N.J. Agric.*
North Dakota Farm Research	*N. Dak. Fm Res.*
Nuclear Science Abstracts (8)	*Nuclear Sci. Abstr.*
Ohio Farm and Home Research	*Ohio Fm Home Res.*
Ohio Journal of Science (3)	*Ohio J. Sci.*
Papers from the Michigan Academy of Science, Arts and Letters (10)	*Pap. Mich. Acad. Sci.*
Phytopathology (8)	*Phytopathology*
Plant Disease Reporter	*Pl. Dis. Reptr*
Plant Physiology	*Pl. Physiol.*
Potato Handbook	*Potato Handbk*
Proceedings of the American Society for Horticultural Science (8)	*Proc. Amer. Soc. hort. Sci.*
Proceedings of the Association of Official Seed Analysts of North America	*Proc. Ass. off. Seed Anal. N. Amer.*
Proceedings of the Beltwide Cotton Defoliation Conference	*Proc. Beltwide Cott. Defol. Conf.* [*USA*]
Proceedings of the Beltwide Cotton Production Conference	*Proc. Beltwide Cott. Prod. Conf.* [*USA*]
Proceedings of the California Weed Conference	*Proc. Calif. Weed Conf.*
Proceedings of the Indiana Academy of Science	*Proc. Ind. Acad. Sci.*
Proceedings of the Iowa Academy of Science	*Proc. Iowa Acad. Sci.*
Proceedings of the North Central Weed Control Conference	*Proc. N. Cent. Weed Contr. Conf.* [*USA*]
Proceedings of the Northeastern Weed Control Conference	*Proc. N.E. Weed Contr. Conf.* [*USA*]
Proceedings of the Oklahoma Academy of Science	*Proc. Okla Acad. Sci.*
Proceedings of the Soil and Crop Science Society of Florida	*Proc. Soil Crop Sci. Soc. Fla*
Proceedings of the Soil Science Society of America (8)	*Proc. Soil Sci. Soc. Amer.*
Proceedings of the Southern Weed Conference	*Proc. S. Weed Conf.* [*USA*]
Proceedings of the Utah Academy of Sciences, Arts and Letters	*Proc. Utah Acad. Sci.*
Proceedings of the Western Weed Control Conference	*Proc. W. Weed Contr. Conf.* [*USA*]
Quarterly Bulletin. Michigan Agricultural Experiment Station	*Quart. Bull. Mich. agric. Exp. Sta.*
Quarterly Review of Biology	*Quart. Rev. Biol.*
Report of the Alabama Polytechnic Institute Agricultural Experiment Station	*Rep. Ala agric. Exp. Sta.*
Report of the Carnegie Institute Department of Plant Biology	*Rep. Carneg. Inst.*
Report of the Florida Agricultural Experiment Stations	*Rep. Fla agric. Exp. Stas*
Report of the Hormel Institute. University of Minnesota	*Rep. Hormel Inst., Minn.*
Report of the Institute of Microbiology. Rutgers University (8)	*Rep. Inst. Microbiol., Rutgers Univ.*
Report of Iowa State College Division of Agriculture	*Rep. Iowa St. Coll. Div. Agric.*
Report of the Kentucky Agricultural Experiment Station	*Rep. Ky agric. Exp. Sta.*
Report of the Louisiana Agricultural Experiment Station	*Rep. La agric. Exp. Sta.*
Report of the Michigan Agricultural Experiment Station	*Rep. Mich. agric. Exp. Sta.*
Report of the Missouri Agricultural Experiment Station	*Rep. Mo. agric. Exp. Sta.*
Report of the Nebraska Agricultural Experiment Station	*Rep. Neb. agric. Exp. Sta.*
Report of the New Mexico Agricultural Experiment Station	*Rep. N. Mex. agric. Exp. Sta.*
Report of the New York State College of Agriculture at Cornell University	*Rep. N.Y. St. Coll. Agric. Cornell*
Report of the North Carolina State College School of Agriculture	*Rep. N.C. St. Coll. Sch. Agric.*
Report of the Ohio Agricultural Experiment Station	*Rep. Ohio agric. Exp. Sta.*
Report of Purdue University Agricultural Experiment Station	*Rep. Purdue agric. Exp. Sta.*
Report of the Rocky Mountain Forest and Range Experiment Station	*Rep. Rocky Mt. For. Range Exp. Sta.*
Report of the Southern Forest Experiment Station	*Rep. S. For. Exp. Sta.*
Report of Vermont University and State Agricultural College	*Rep. Vt Univ. St. agric. Coll.*
Report of the Washington Agricultural Experiment Stations	*Rep. Wash. agric. Exp. Stas*
Research and Farming. North Carolina	*Res. and Fmg, N.C.*
Research in Agriculture. North Dakota	*Res. in Agric., N. Dak.*
Research Progress. Arizona Agricultural Experiment Station	*Res. Progr. Ariz. agric. Exp. Sta.*
Research Progress. Illinois Agricultural Experiment Station	*Res. Progr. Ill. agric. Exp. Sta.*

Title	Abbreviation used
USA—(*Continued*)	
Research Report of the North Central Weed Control Conference	*Res. Rep. N. Cent. Weed Contr. Conf. [USA]*
Research Report of the Virginia Agricultural Experiment Station	*Res. Rep. Va agric. Exp. Sta.*
Research Studies. State College of Washington	*Res. Stud. State Coll. Wash.*
Rhode Island Agriculture	*Rhode Is. Agric.*
Rice Journal	*Rice J.*
Science	*Science*
Science for the Farmer	*Sci. Fmr*
Seed Trade Buyers' Guide	*Seed Tr. Buy. Guide*
Seed World	*Seed World*
Serving Georgia through Research	*Serv. Ga through Res.*
Soil Science (8)	*Soil Sci.*
South Dakota Farm and Home Research	*S. Dak. Fm Home Res.*
Soybean Digest	*Soybean Dig.*
Sugar Beet Journal	*Sug. Beet J.*
Technical Digest. Washington	*Tech. Dig., Wash.*
Transactions of the Kansas Academy of Science	*Trans. Kans. Acad. Sci.*
Transactions of the Wisconsin Academy of Sciences, Arts and Letters	*Trans. Wis. Acad. Sci.*
United States Golf Association Journal	*U.S. Golf Ass. J.*
Vermont Farm and Home Science	*Vermont Fm Home Sci.*
Weeds	*Weeds*
What's New in Farm Science. Wisconsin	*What's new in Fm Sci., Wis.*
World Agriculture	*World Agric.*
Wyoming Roundup	*Wyo. Roundup*
USSR	
Agrobiologija (10)	*Agrobiologija (Agrobiology, Moscow)*
Biohimija (1)	*Biohimija (Biochemistry, Leningr.)*
Botaničeskiĭ Žurnal, SSSR	*Bot. Ž., SSSR (Bot. J., USSR)*
Doklady Akademii Nauk, SSSR	*Doklady Akad. Nauk, SSSR (Proc. Acad. Sci., USSR)*
Doklady Vsesojuznoĭ Akademii Sel'skohozjaĭstvennyh Nauk imeni V.I. Lenina	*Doklady Vsesojuz. Akad. S.-H. Nauk (Proc. Lenin Acad. Agric. Sci.)*
Ekonomika Sel'skogo Hozjaĭstva	*Ekon. Sel'sk. Hoz. (Econ. Agric.)*
Fiziologija Rasteniĭ	*Fiziol. Rast. (Pl. Physiol., USSR)*
Hlopkovodstvo	*Hlopkovodstvo (Cott. Prod.)*
Izvestija Akademii Nauk, SSSR	*Izv. Akad. Nauk, SSSR (Bull. Acad. Sci., USSR)*
Biol. Ser.	*Biol. Ser.*
Geogr. Ser.	*Geogr. Ser.*
Izvestija Timirjazevskoĭ Sel'skohozjaĭstvennoĭ Akademii	*Izv. Timirjazevsk. S.-H. Akad. (Bull. Timirjazev agric. Acad.)*
Nauka i Peredovoĭ Opyt v Sel'skom Hozjaĭstve	*Nauka Pered. Opyt Sel'sk. Hoz. (Sci. Adv. exp. Agric.)*
Počvovedenie	*Počvovedenie (Pedology, Moscow)*
Priroda, Moskva	*Priroda, Moskva (Nature, Moscow)*
Trudy Botaničeskogo Instituta V.L. Komarova	
Series 1. Flora i Sistematika v Vyšših Rasteniĭ	
Series 2. Geobotanika	*Trudy Bot. Inst. V.L. Komarova (Trudy Inst. bot., Acad. Sci., USSR) (1) (2) (3)*
Series 3. Eksperimental'naja Botanika	
Ukraïns'kiĭ Botaničniĭ Žurnal. Kiev	*Ukr. bot. Ž., Kiev (Ukrainian Bot. J.)*
Uspehi Sovremennoĭ Biologii (13)	*Usp. Sovrem. Biol. (Adv. mod. Biol., Moscow)*
Vestnik Sel'skohozjaĭstvennoiĭ Nauki	*Vestn. S.-H. Nauki (J. agric. Sci. USSR)*
Zemledelie	*Zemledelie (Agriculture, USSR)*
WEST INDIES	
Investigations. Department of Agriculture. Jamaica	*Investig. Dep. Agric. Jamaica*
Journal of the Agricultural Society of Trinidad and Tobago (2)	*J. agric. Soc. Trin. Tob.*
Journal of Agriculture of the University of Puerto Rico	*J. Agric. Univ. P.R.*
Record of Investigations. Department of Science and Agriculture. Barbados	*Rec. Investig. Dep. Sci. Agric. Barbados*

Title	Abbreviation used
WEST INDIES—(*Continued*)	
Report of the Antigua Agricultural Department	*Rep. Antigua agric. Dep.*
Report of the Agricultural Department. Montserrat (Leeward Islands)	*Rep. agric. Dep. Montserrat*
Report of the British West Indies Central Sugar Cane Breeding Station. Barbados	*Rep. B.W.I. Sug. Cane Breed. Sta.*
Report of the Department of Agriculture. Jamaica	*Rep. Dep. Agric. Jam.*
Report of the Department of Agriculture. Trinidad and Tobago	*Rep. Dep. Agric. Trin. Tob.*
Report of the Department of Agriculture. British Virgin Isles	*Rep. Dep. Agric. Brit. Virgin Is*
Report of the Governing Body of the Eastern Caribbean Farm Institute	*Rep. Gov. Body E. Caribbean Fm Inst.*
Revista de Agricultura. Habana	*Rev. Agric., Habana*
Revista de Agricultura. Puerto Rico	*Rev. Agric., P.R.*
Tropical Agriculture. Trinidad	*Trop. Agric., Trin.*
YUGOSLAVIA	
Agronomski Glasnik	*Agronom. Glas.*
Arhiv za Poljoprivredne Nauke	*Arhiv polj. nauke*
Biljna Proizvodnja	*Biljna Proizvod.* (*Plant Production, Zagreb*)
Biološki Glasnik	*Biol. Glas.*
Radovi. Series A	*Radovi* (*A*)
Srpsko Biološko Društvo (Posebna Izdanja)	*Srpsko Biol. Društ.*
Stočarstvo	*Stočarstvo*
Veterinaria	*Veterinaria, Sarajevo*
Veterinarski Arhiv, Zagreb	*Vet. Arhiv, Zagreb*
Yearbook of the Faculty of Agriculture and Forestry. University of Skoplje	*Yearb. Fac. Agric. For. Skoplje*
Zaštita Bilja	*Zaštita Bilja*
Zbornik Radova Poljoprivrednog Fakulteta	*Zborn. Rad. Poljopr. Fakul.*
Zemljište i Biljka	*Zemlj. Biljka*
Zemljište Mikroorganizmi Biljke	*Zemlj. Mikroorgan. Biljke* (*Soil, Microorganisms and Plants*(
ZANZIBAR	
Report of the Department of Agriculture. Zanzibar	*Rep. Dep. Agric. Zanzibar*

NOTES

Unless followed by a number in brackets, the publications listed above belong to the library of the Commonwealth Bureau of Pastures and Field Crops. The ownership of the other publications is indicated by the numbers in brackets.

(1) Commonwealth Bureau of Animal Nutrition, Aberdeen.

(2) Commonwealth Bureau of Horticulture and Plantation Crops, East Malling, Kent.

(3) Commonwealth Bureau of Plant Breeding and Genetics, Cambridge.

(4) Commonwealth Forestry Bureau, Oxford.

(5) Other Oxford libraries.

(6) Commonwealth Entomological Institute, London.

(7) Other London libraries.

(8) Grassland Research Station, Hurley, Berkshire.

(9) Commonwealth Bureau of Agricultural Parasitology, St. Albans.

(10) Commonwealth Mycological Institute, Kew.

(11) Commonwealth Bureau of Dairy Science and Technology, Shinfield, Nr Reading.

(12) Royal Botanic Gardens, Edinburgh.

(13) Commonwealth Bureau of Animal Breeding, Edinburgh.

(14) National Institute of Research in Dairying, Shinfield, Nr Reading.

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